

AUTOMATIC OPTIMIZATION OF
DOPPLER DISPLAY PARAMETERS

Abstract of the disclosure:

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10 In an ultrasonic diagnostic imaging system, the
parameters which govern the display of Doppler information
are automatically optimized to make better use of the
display range or area. Spectral Doppler information may
be used to optimize a spectral display or a colorflow
display, and colorflow Doppler information may be used to
optimize a spectral display or a colorflow display. The
optimization may be invoked by a manual user control which
automatically optimizes one or a plurality of display
15 parameters. Automatic optimization may be invoked only
when called for by the user, or periodically after a time
interval, a given number of heart cycles, or when the user
has made a change to the display or imaging mode.
Preferably the optimization processor runs continuously in
20 the background so that optimized parameters are available
immediately when called for. The optimization processor
may utilize "hidden" Doppler data which has been acquired
but is not used for display purposes.